

## WHAT IS CLAIMED IS:

1           1.    An apparatus for socketing and testing integrates  
2 circuits comprising:

3                    an air machine; and

4                    a housing comprising (i) a printed circuit board that  
5 is operable to receive a device under test, and (ii) a controller  
6 that is operable to control testing of the received device under  
7 test;

8                    wherein said air machine is associable with said  
9 housing to form an at least substantially air-tight chamber  
10 ensconcing the received device under test.

1           2.    The apparatus as set forth in Claim 1 wherein said  
2 housing further comprises a power supply.

1           3.    The apparatus as set forth in Claim 1 wherein said  
2 printed circuit board is circular shaped.

1           4.    The apparatus as set forth in Claim 3 wherein said  
2 housing further comprises I/O connectors that are placed  
3 circumferentially and symmetrically near the edge of the printed  
4 circuit board.

1           5.    The apparatus as set forth in Claim 3 wherein said  
2 printed circuit board comprises a leadless socket.

1           6.    The apparatus as set forth in Claim 5 wherein said  
2 leadless socket is operable to receive the device under test in  
3 the center of the Printed circuit board.

100-500-600-700-800-900-1000-1100-1200-1300-1400-1500-1600-1700-1800-1900-2000-2100-2200-2300-2400-2500-2600-2700-2800-2900-3000-3100-3200-3300-3400-3500-3600-3700-3800-3900-4000-4100-4200-4300-4400-4500-4600-4700-4800-4900-5000-5100-5200-5300-5400-5500-5600-5700-5800-5900-6000-6100-6200-6300-6400-6500-6600-6700-6800-6900-7000-7100-7200-7300-7400-7500-7600-7700-7800-7900-8000-8100-8200-8300-8400-8500-8600-8700-8800-8900-9000-9100-9200-9300-9400-9500-9600-9700-9800-9900-10000-10100-10200-10300-10400-10500-10600-10700-10800-10900-11000-11100-11200-11300-11400-11500-11600-11700-11800-11900-12000-12100-12200-12300-12400-12500-12600-12700-12800-12900-13000-13100-13200-13300-13400-13500-13600-13700-13800-13900-14000-14100-14200-14300-14400-14500-14600-14700-14800-14900-15000-15100-15200-15300-15400-15500-15600-15700-15800-15900-16000-16100-16200-16300-16400-16500-16600-16700-16800-16900-17000-17100-17200-17300-17400-17500-17600-17700-17800-17900-18000-18100-18200-18300-18400-18500-18600-18700-18800-18900-19000-19100-19200-19300-19400-19500-19600-19700-19800-19900-20000-20100-20200-20300-20400-20500-20600-20700-20800-20900-21000-21100-21200-21300-21400-21500-21600-21700-21800-21900-22000-22100-22200-22300-22400-22500-22600-22700-22800-22900-23000-23100-23200-23300-23400-23500-23600-23700-23800-23900-24000-24100-24200-24300-24400-24500-24600-24700-24800-24900-25000-25100-25200-25300-25400-25500-25600-25700-25800-25900-26000-26100-26200-26300-26400-26500-26600-26700-26800-26900-27000-27100-27200-27300-27400-27500-27600-27700-27800-27900-28000-28100-28200-28300-28400-28500-28600-28700-28800-28900-29000-29100-29200-29300-29400-29500-29600-29700-29800-29900-30000-30100-30200-30300-30400-30500-30600-30700-30800-30900-31000-31100-31200-31300-31400-31500-31600-31700-31800-31900-32000-32100-32200-32300-32400-32500-32600-32700-32800-32900-33000-33100-33200-33300-33400-33500-33600-33700-33800-33900-34000-34100-34200-34300-34400-34500-34600-34700-34800-34900-35000-35100-35200-35300-35400-35500-35600-35700-35800-35900-36000-36100-36200-36300-36400-36500-36600-36700-36800-36900-37000-37100-37200-37300-37400-37500-37600-37700-37800-37900-38000-38100-38200-38300-38400-38500-38600-38700-38800-38900-39000-39100-39200-39300-39400-39500-39600-39700-39800-39900-40000-40100-40200-40300-40400-40500-40600-40700-40800-40900-41000-41100-41200-41300-41400-41500-41600-41700-41800-41900-42000-42100-42200-42300-42400-42500-42600-42700-42800-42900-43000-43100-43200-43300-43400-43500-43600-43700-43800-43900-44000-44100-44200-44300-44400-44500-44600-44700-44800-44900-45000-45100-45200-45300-45400-45500-45600-45700-45800-45900-46000-46100-46200-46300-46400-46500-46600-46700-46800-46900-47000-47100-47200-47300-47400-47500-47600-47700-47800-47900-48000-48100-48200-48300-48400-48500-48600-48700-48800-48900-49000-49100-49200-49300-49400-49500-49600-49700-49800-49900-50000-50100-50200-50300-50400-50500-50600-50700-50800-50900-51000-51100-51200-51300-51400-51500-51600-51700-51800-51900-52000-52100-52200-52300-52400-52500-52600-52700-52800-52900-53000-53100-53200-53300-53400-53500-53600-53700-53800-53900-54000-54100-54200-54300-54400-54500-54600-54700-54800-54900-55000-55100-55200-55300-55400-55500-55600-55700-55800-55900-56000-56100-56200-56300-56400-56500-56600-56700-56800-56900-57000-57100-57200-57300-57400-57500-57600-57700-57800-57900-58000-58100-58200-58300-58400-58500-58600-58700-58800-58900-59000-59100-59200-59300-59400-59500-59600-59700-59800-59900-60000-60100-60200-60300-60400-60500-60600-60700-60800-60900-61000-61100-61200-61300-61400-61500-61600-61700-61800-61900-62000-62100-62200-62300-62400-62500-62600-62700-62800-62900-63000-63100-63200-63300-63400-63500-63600-63700-63800-63900-64000-64100-64200-64300-64400-64500-64600-64700-64800-64900-65000-65100-65200-65300-65400-65500-65600-65700-65800-65900-66000-66100-66200-66300-66400-66500-66600-66700-66800-66900-67000-67100-67200-67300-67400-67500-67600-67700-67800-67900-68000-68100-68200-68300-68400-68500-68600-68700-68800-68900-69000-69100-69200-69300-69400-69500-69600-69700-69800-69900-70000-70100-70200-70300-70400-70500-70600-70700-70800-70900-71000-71100-71200-71300-71400-71500-71600-71700-71800-71900-72000-72100-72200-72300-72400-72500-72600-72700-72800-72900-73000-73100-73200-73300-73400-73500-73600-73700-73800-73900-74000-74100-74200-74300-74400-74500-74600-74700-74800-74900-75000-75100-75200-75300-75400-75500-75600-75700-75800-75900-76000-76100-76200-76300-76400-76500-76600-76700-76800-76900-77000-77100-77200-77300-77400-77500-77600-77700-77800-77900-78000-78100-78200-78300-78400-78500-78600-78700-78800-78900-79000-79100-79200-79300-79400-79500-79600-79700-79800-79900-80000-80100-80200-80300-80400-80500-80600-80700-80800-80900-81000-81100-81200-81300-81400-81500-81600-81700-81800-81900-82000-82100-82200-82300-82400-82500-82600-82700-82800-82900-83000-83100-83200-83300-83400-83500-83600-83700-83800-83900-84000-84100-84200-84300-84400-84500-84600-84700-84800-84900-85000-85100-85200-85300-85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1           7.    A method of operating an apparatus for socketing and  
2   testing integrated circuits, said apparatus comprising an air  
3   machine and a housing, said housing comprising a printed circuit  
4   board and a controller, said method comprising the steps of  
5   (i) receiving a device under test, and (ii) associating said air  
6   machine with said housing to form an at least substantially air-  
7   tight chamber ensconcing the received device under test.

1           8.    The method as set forth in Claim 7 wherein said housing  
2   further comprises a power supply, and said method comprising the  
3   step of powering on the apparatus.

1           9.    The method as set forth in Claim 7 wherein said printed  
2   circuit board is circular shaped, and said method comprising the  
3   step of controlling testing of the received device under test  
4   with said controller.

1           10.   The method as set forth in Claim 9 wherein said housing  
2   further comprises I/O connectors that are placed  
3   circumferentially and symmetrically near the edge of the printed  
4   circuit board.

1           11.   The method as set forth in Claim 9 wherein said printed  
2   circuit board comprises a leadless socket.

- 1        12. The method as set forth in Claim 11 wherein said
- 2        leadless socket is operable to receive the device under test in
- 3        the center of the Printed circuit board.

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1        13.    An apparatus for socketing and testing integrated  
2 circuits comprising:

3                an air machine; and

4                a housing comprising (i) a universal printed circuit  
5 board that is operable to receive a device under test, (ii) a  
6 controller that is operable to control testing of the received  
7 device under test, and (ii) a power supply;

8                wherein said air machine is associable with said  
9 housing to form an at least substantially air-tight chamber  
10 ensconcing the received device under test.

1        14.    The apparatus as set forth in Claim 13 wherein said  
2 power supply is a battery.

1        15.    The apparatus as set forth in Claim 13 wherein said  
2 universal printed circuit board is circular shaped.

1        16.    The apparatus as set forth in Claim 15 wherein said  
2 housing further comprises I/O connectors that are placed  
3 circumferentially and symmetrically near the edge of the  
4 universal printed circuit board.

1        17.    The apparatus as set forth in Claim 15 wherein said  
2 printed circuit board comprises a leadless socket.

1        18. The apparatus as set forth in Claim 17 wherein said  
2        leadless socket is operable to receive the device under test in  
3        the center of the printed circuit board.

1        19. The apparatus as set forth in Claim 13 wherein the  
2        device under test is one of a RF integrated circuit and a  
3        high-frequency integrated circuit.

1        20. The apparatus as set forth in Claim 17 wherein said  
2        leadless socket is self-registering.

2025 RELEASE UNDER E.O. 14176